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Abstract

HIGH-TEMPERATURE GAS COOLED POWER REACTOR

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The paper discusses the prospects for utilization or gas-cooled reactors in atomic power industry of the USSR. Reactors with different coolants are analysed. The possible use of single-circuit gas-turbine plants at high coolant temperatures is discussed along with a double-circuit installation with a steam-turbine cycle.

The paper describes a gas-cooled power **reactor,** and eleborates calculation techniques and methods of selection of optimum neutron physical and thermal characteristics of the reactor and parameters of the thermodynamic cycle.

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